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APRIL 15, 2000



UNITED STATES DEPARTMENT OF COMMERCE
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Washington, D.C. 20231

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P
PTAS
BRADLEY A. FORREST
PO BOX 2938
MINNEAPOLIS, MN 55402



101264742A

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SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 01/19/2000

REEL/FRAME: 010532/0238
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).
ASSIGNOR:

PETCULESCU, CRISTIAN

DOC DATE: 01/10/2000

ASSIGNOR:

NETZ, AMIR

DOC DATE: 01/10/2000

ASSIGNEE:

MICROSOFT CORPORATION
ONE MICROSOFT WAY
REDMOND, WASHINGTON 98052

SERIAL NUMBER: 09419427

FILING DATE: 10/15/1999
PATENT NUMBER:

ISSUE DATE:

SEDLEY PYNE, PARALEGAL
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

Schwegman, Lunberg,
Woessner & Kluth, P.A.

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Atty Ref/Docket No.: 777.324US1



To the Honorable Commissioner of Patents and Trademark

101264742

by thereof.

1. Name of conveying party(ies):

Cristian Petculescu and Amir Netz

2. Name and address of receiving party(ies):

Name: Microsoft Corporation

Additional name(s) of conveying party(ies) attached? []Yes [X]No

3. Nature of conveyance:

[X] Assignment [] Merger
 [] Security Agreement [] Change of Name
 [] Other _____

Street Address: One Microsoft Way

City: Redmond State: WA ZIP: 98052

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Additional name(s) & address(es) attached? []Yes [X]No

Execution Date: January 10, 2000, January 10, 2000

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)

Serial No. 09/419,427, filed October 15, 1999

B. Patent No.(s)

Additional numbers attached? []Yes [X]No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Bradley A. Forrest6. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41): \$ 40.00

Address: Schwegman, Lundberg, Woessner & Kluth, P.A.
 P.O. Box 2938
 Minneapolis, MN 55402

[X] Enclosed

[] Authorized to be charged to deposit account

8. Please charge any additional fees or credit any overpayments to our
Deposit account number: 19-0743

02/10/2000 DOCAATES 00000051 09419427

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Bradley A. Forrest/Reg. No. 30,837

Name of Person Signing

Bradley A. Forrest

Signature

1-12-2000

Date

Total number of pages including cover sheet: 3

OMB No. 0651-0011 (exp. 4/94)

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ASSIGNMENT

WHEREAS, we, Cristian Petculescu and Amir Netz (hereinafter referred to as ASSIGNSORS), having post office addresses of 8500 148th NE, Apt. P2048, Redmond, WA 98052 and 16607 NE 32nd St., Bellevue, WA 98008 respectively, are the joint inventors of an invention entitled "EXTENSIONS FOR ADDING AND REMOVING CALCULATED MEMBERS IN A MULTIDIMENSIONAL DATABASE", as described and claimed in the specification forming part of an application for United States letters patent filed October 15, 1999 and assigned serial number 09/419,427;

WHEREAS, Microsoft Corporation (hereinafter referred to as ASSIGNEE), a corporation of the State of Washington having a place of business at One Microsoft Way, Redmond, WA 98052, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefor in the United States and in any and all foreign countries;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNSORS hereby sell, assign and transfer unto said ASSIGNEE, the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNSORS had this assignment, transfer and sale not been made. ASSIGNSORS hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNSORS agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding said letters patent, or for the purpose of protecting title to said invention or letters patent therefor.

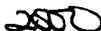
IN TESTIMONY WHEREOF, I have hereunto set my hand this 10 day of January, 1999.



Cristian Petculescu

STATE OF Washington
ss.

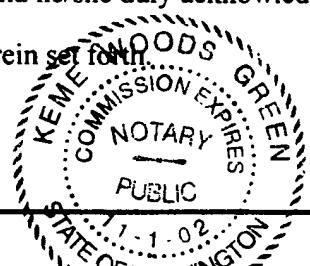
COUNTY OF King)



On this 10 day of January, 1999 before me personally appeared Cristian Petculescu to me known and known to me to be the person described in and who executed the foregoing

instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]



Keme Woods Green

Notary Public

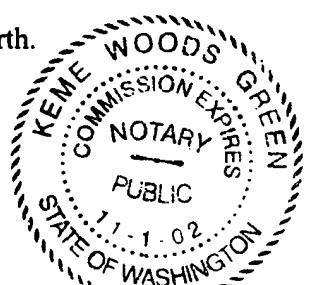
STATE OF Washington
ss.

COUNTY OF King)


Amir Netz

On this 10 day of January, 1999 before me personally appeared Amir Netz to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]



Keme Woods Green

Notary Public

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NETZ, AMIR

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 [] Other _____

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City: Redmond State: WA ZIP: 98052

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Deposit account number: 19-0743

02/10/2000-0000051-09419427

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Name of Person Signing

Signature

1-12-2000

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NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNEES hereby sell, assign and transfer unto said ASSIGNEE, the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNEES had this assignment, transfer and sale not been made. ASSIGNEES hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNEES agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding said letters patent, or for the purpose of protecting title to said invention or letters patent therefor.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 10 day of January, ²⁰⁰⁰



Cristian Petculescu

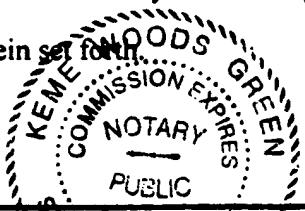
STATE OF Washington
ss.

COUNTY OF King)

On this 10 day of January, ²⁰⁰⁰ before me personally appeared Cristian Petculescu

to me known and known to me to be the person described in and who executed the foregoing
instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and
purposes therein set forth.

[SEAL]



Keme Woods Green
Notary Public

IN TESTIMONY WHEREOF, I have hereunto set my hand this 10 day of January, ²⁰⁰⁰

Amir Netz



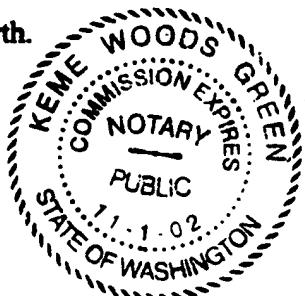
STATE OF Washington
ss.

COUNTY OF King)

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therein set forth.

[SEAL]



Keme Woods Green
Notary Public

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Paper: Executed Power of Attorney w/Revocation

Applicant(s): Microsoft

Serial No.: 09/419,427

Filed: 10/15/99

Docket No.: MSFT-0535

Date Hand Delivered to USPTO:

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